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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,701	06/03/2005	Maurice Hamoignon	6543/PCT	8698
6858	7590 11/28/2007	EXAMINER		
P.O. BOX 320		•	CHUNG TRANS, XUONG MY	
ALEXANDRI	A, VA 22320-0160	ART UNIT PAPER NUMBER	PAPER NUMBER	
·			2833	
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			MAIL DATE	DELIVERY MODE
			11/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/534,701	HAMOIGNON, MAURICE
Office Action Summary	Examiner	Art Unit
	Xuong M. Chung-Trans	2833
The MAILING DATE of this comi Period for Reply	munication appears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIO WHICHEVER IS LONGER, FROM TH  - Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this If NO period for reply is specified above, the maximum.  - Failure to reply within the set or extended period for	um statutory period will apply and will expire SIX (6) MONT reply will, by statute, cause the application to become AB, nths after the mailing date of this communication, even if ti	CATION.  apply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s	) filed on 04 September 2007.	
2a)⊠ This action is FINAL.	2b)☐ This action is non-final.	
3)☐ Since this application is in condit	tion for allowance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the pr	ractice under <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 4-7 is/are pending in the	e application.	
	is/are withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>4-7</u> is/are rejected.		
7) Claim(s) is/are objected to	<b>ɔ</b> .	
8) Claim(s) are subject to re-	striction and/or election requirement.	
Application Papers	•	
9)☐ The specification is objected to by	y the Examiner.	
· ·	are: a)☐ accepted or b)☐ objected to b	by the Examiner.
Applicant may not request that any o	objection to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) inclu	ding the correction is required if the drawing(s	s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objecte	ed to by the Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a cla	aim for foreign priority under 35 U.S.C. §	119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None o	ıf:	
1. Certified copies of the prio	rity documents have been received.	
2. Certified copies of the prior	rity documents have been received in Ap	oplication No
3. Copies of the certified copi	ies of the priority documents have been r	received in this National Stage
• •	ational Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office a	ction for a list of the certified copies not r	eceived.
Attachment(s)		
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Revieus		ummary (PTO-413) /Mail Date
3) Information Disclosure Statement(s) (PTO/SB/0	08) 5) Notice of Inf	formal Patent Application
Paper No(s)/Mail Date	6) Other:	<b>→</b>

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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- 1. This is responsive to the amendment filed September 4, 2007. Claims 5-6 have been amended and new claim 7 has been added. Therefore, claims 4-7 are pending in this application.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Camps et al. (USPN 5,934,930) in view of Sheynis et al. (USPN 6,683,789).

As per claim 4, Camp discloses a cable connector comprising: a housing made up of at least two components (6, 7) including a first component (6) and a second component (7) which are movable to come into contact with each other about an axis of rotation for electrically conducting connection, when present therein, of a flat cable (1) having a plurality of bunched conductors with at least one round cable (4) composed of a plurality of bunched conductors, wherein the first component is adapted to receive conductors of the at least one round cable with insulation thereon removed to provide bared conductors laterally separated from each other in a connection section provided inside the first component, and the second component is adapted to receive the flat cable, wherein electrically conducting contacting elements (32, 33, 34) to which the conductors of the round cable connect and which include cutting tips for perforating

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insulation of the conductors and embedding in strands of the conductors of the flat cable. Camp does not explicitly disclose a closing lever coupled at a distance from the axis of rotation with the first component, the closing lever including a closing claw which is engagable with a stationary cam on the second component in such a way that the at least first component and second component move in a direction of closing to contact each other for reciprocal closing when the closing lever is actuated and to press the cutting tips into the conductors of the flat cable thereby connecting the flat cable and the round cable together upon actuation of the closing lever. Camp does disclose the closing mechanism (7, 23,26,6,24,25) that locks the connector and connects two conductors (col. 5, lines 4-16). Furthermore, the use of a closing lever is well-known in the art to facilitate connection operations of the first connector element with the second connector element, and also applying some force to lock the connector in a connected position. Sheynis disclose such a closing lever (26). It would have been an obvious substitute of art to replace the closing mechanism of Camp with the closing lever of Sheynis so that to facilitate connection operations of the first connector element with the second connector element, to lock the connector in a connected position and to press the cutting tips into the conductors of the cable to connect two cables together and thereby the connection can be carried out with low insertion force.

As per claim 5, the teach of claim 4 above is applied and Sheynis further discloses that the closing lever (26) has a U-shaped configuration and extends across one of the at least two components which carries the lever, and sides of the closing lever are coupled to the one of the at least two components (6, 7) and each side

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includes a closing claw (24) which operates in conjunction with an associated one of the stationary cam 35.

As per claims 6-7, Camp discloses that the first component 6 comprises a cover component and an intermediate component (8) positioned below the cover component for receiving conductors of the round cable (4) which are not bared and which are to be connected, wherein the contacting elements (32, 33, 34) have cutting tips, which extend upward and downward for penetrating strands of the round cable (4) and the flat cable (1), are mounted and retained in the intermediate component 8 such that the cutting tips project from two surfaces of the intermediate component opposite the cover component such that when sandwich-like assembly of the cover component, the intermediate component, and the second component is provided by the closing lever moving the first component and the second component into contact with each other, electric connection is automatically established between the cover component, the intermediate component and the second component.

4. Applicant's arguments filed September 4, 2007 have been fully considered but they are not persuasive.

Applicant argued that the combination of Camp and Sheynis does not provide a cable connector with a closing lever that both connects two conductors and locks the connector. The examiner respectfully disagrees because the combination of Camp and Sheynis do provide a cable connector with a closing lever that both connects two conductors and locks the connector. The combination have the same structure and the

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structure is seen to complete the connection operations of moving connectors into a closing direction and to press cutting tips into the conductors of the flat cable thereby connecting the flat cable and the round cable together upon actuation of the closing lever.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the use of such lever is well-known in the art to facilitate connection operations of the first connector element with the second connector element, and also applying some force to lock the connector in a connected position. Sheynis disclose such a closing lever (26). It would have been an obvious substitutes of art to replace the closing mechanism of Camp with the closing lever of Sheynis so as to facilitate connection operations of the first connector element with the second connector element, to lock the connector in a

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connected position and to press the cutting tips into the conductors of the cable to connect two cable together and thereby the connection can be carried out with low insertion force.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xuong M. Chung-Trans whose telephone number is (571) 272-2002. The examiner can normally be reached on Monday and Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 extension 33.. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

X. Chung-Trans

TRUCT. NGUYEN
PRIMARY EXAMINER